

Title (en)

Method and system for continuously manufacturing liquid-crystal display element

Title (de)

Verfahren und System zur kontinuierlichen Herstellung von Flüssigkristallanzeigeelementen

Title (fr)

Procédé et système pour fabriquer de manière continue un élément d'affichage à cristaux liquides

Publication

EP 2315071 B1 20111026 (EN)

Application

EP 10176101 A 20100910

Priority

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Abstract (en)

[origin: EP2315071A1] The present invention provides a method and a system (1) for continuously manufacturing liquid-crystal display elements, using a continuous optical film laminate (15) which comprises at least an optically functional film (11) having an adhesive layer (12) provided thereon and a carrier film (13) releasably laminated on said adhesive layer (12), the optically functional film (11) including at least one defect-free region (Xa) and at least one defect-containing region (Xp), the defect-free region having a predefined length corresponding to a dimension of a liquid-crystal panel, the defect-containing region including at least one defect and defined as a region having a predefined length which is different from the length of the defect-free region, slit lines (16) being sequentially formed to extend in a transverse direction of the optical film laminate to form defect-free, normal optically functional film sheets and defect-containing optically functional film sheets, the normal optically functional film sheet and the defect-containing optically functional film sheet corresponding to respective ones of the regions in the optically functional film. The optical film laminate including the carrier film is wound into a roll. In manufacturing the liquid-crystal display elements, only the defect-free, normal sheets are laminated to respective ones of the liquid-crystal panels.

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